Installation/Operating Instructions

Targa and Premier 220V Electric Projection Screen—Large Sizes by Draper

These Installation/Operating Instructions are available in the official language of the country where you purchase the product. Please contact your distributor to request a copy.

Vous pourriez demander les instructions d'installation et d'opération traduises dans la langue officielle du pays ou vous achetez le produit. Veuillez demander à votre distributeur.

Die Gebrauchsanweisung für Installation und Konstruktion sind in der offiziellen Sprache des Landes, indem Sie das Produkt gekauft haben, vorhanden. Fragen Sie die jeweilige Verkaufs-Abteilung.

⚠Caution

① Read instructions through completely before proceeding.
② Follow instructions carefully. Installation contrary to instructions invalidates warranty.
③ Screen should be accessible for complete removal should fabric become damaged or should other service be required.
④ Screen should be installed level (using a carpenter's level). The case must also be installed so that the top of the case is level (front-to-back) to prevent the fabric from contacting the case housing.
⑤ Nothing should be fastened to screen dowel or viewing surface.
⑥ Operating switch(es) packed separately in screen carton. Do not discard with packing material.
⑦ Screen operates on 220V AC, 50 Hz., 1 ph. current.

NOTE: Screen has been thoroughly inspected and tested at factory and found to be operating properly prior to shipment.

These instructions are meant as a guide only. They do not imply any responsibility on the part of Draper, Inc. for improper installation or faulty workmanship at the jobsite.

Hanging Screen

General:

Screen should be lifted into position ***only by the end mounting brackets. Keep case level by lifting end plates simultaneously to prevent surface damage. Never attempt to lift screen along its length.***

Installer must also insure that wall or ceiling structure is of adequate strength. Supporting hardware must be essentially vertical. ***Do not suspend this product using chain or cable (see note at bottom right regarding this screen with Tork Star). The screen must be securely fastened using at least two of the mounting holes provided in each of the case mounting brackets.***

When locating viewing surface and checking clearance for screen's operation, remember surface is centered in case. Handle case carefully to protect its finish.

Regardless of mounting method, screen should be positively and securely supported so that vibration or even abusive pulling on the viewing surface will not cause case to work loose or fall. Installer must insure that fasteners used are of adequate strength and suitable for the mounting surface chosen.

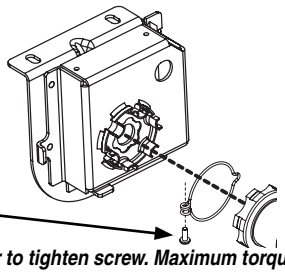
Ceiling Installation:

Product is very heavy: Installer must provide adequate attachment hardware and anchors as required. Installer must also insure that ceiling structure is of adequate strength.

Wall Installation:

Product is very heavy: Installer must provide adequate attachment hardware and anchors as required. Installer must also insure that wall structure is of adequate strength.

⚠Caution: Do not remove the roller assembly from the case unless necessary for repairs. If the roller assembly is removed, be sure motor is fully re-seated in the bracket, and re-secure it carefully with the motor retaining spring and screw (see diagram below).



Screw is included with Large Targas and Large Premiers.

Please note: Do not use a power screwdriver to tighten screw. Maximum torque for tightening screw is 5 lb-inches.

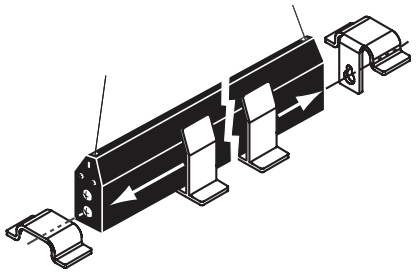
Electrical Connections

Screen operates on 220V AC, 50 Hz., 1 ph. current. Junction box is located inside left endcap and cover plate is secured to endcap with two screws. Screen is shipped with internal wiring complete and control switch(es) fully boxed, and standardly supplied with a 6' cable lead. Longer lead can be substituted by removing two screws in motor end of roller, removing lead, plugging new lead in, and replacing screws. Wire to connect screen to switch(es) and switch(es) to power supply should be furnished by installer. Connections should be made in accordance with attached wiring diagram, and wiring should comply with national and local electrical codes.

All operating switches should be "Off" before power is connected.

Operation

Before fully operating screen: On Large Targa, remove tape; on Large Premier, lower viewing surface enough to fully expose shipping brackets, then remove shipping brackets by loosening screws, removing end shipping brackets, sliding center shipping brackets off dowel, and re-tightening screws (see diagram).



220V AC Single Station Control—3-position up-off-down switch permits operation to be stopped at any point. Factory adjusted limit switches automatically stop screen when fully down or fully up.

220V AC Multiple Station Control—Switches are similar in appearance to 220V Single Station Control. Screen stops when switch is released and may be restarted in either direction. Factory adjusted limit switches stop screen automatically when fully up or fully down.

24V Control—Three-button up-stop-down switch(es) stop at any point desired, operate in any sequence. Factory adjusted limit switches automatically stop screen when fully up or fully down. Installer should incorporate an all-pole disconnect in the fixed wiring.

Key Operated Switching—Two kinds of key-operated switches are optionally available with this unit. ① The key-operated power supply switch controls power to the screen and switches. When it is "off", the switches will not operate screen. Key may be removed from the switch in either "on" or "off" position. ② A three-position key switch permits the screen to be operated directly by key. In this case, the screen's operator must always have a key.

RS232/Ethernet—Serial communication and network communication optionally available with wall switches, RF or IR remote.

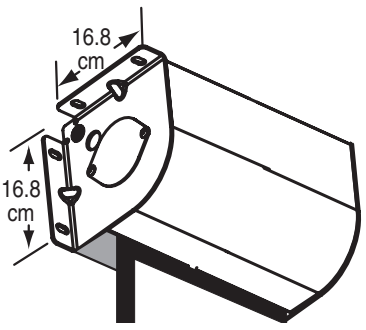
Adjustments

Screen has been factory set and should not normally require further adjustment. However, if you desire to change the "up" and "down" stopping positions, proceed as follows:

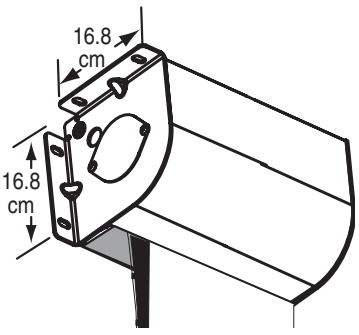
⚠**CAUTION:** Be sure all switches are in "off" position before adjusting limit switches. Always be prepared to shut screen off manually when new adjust-ment is being tested. Screen may be severely damaged if viewing surface is allowed to run too far up or too far down.

Adjusting "fully up" position — "Up" stopping position may be adjusted by turning the yellow limit switch adjustment socket. The yellow socket is located on left end of screen roller and is accessible to a screwdriver/Allen wrench (4mm or 5/32"). Turning the socket counterclockwise will allow the viewing surface to retract farther into the case. Turning it clockwise will cause the surface to stop farther out of the case. One full revolution of the socket will alter the stopping position of the viewing surface by approximately 1½".

Adjusting "fully down" position — "Down" stopping position may be adjusted by turning the white limit switch adjustment socket. The white socket is located on the left end of screen roller and is accessible to a screwdriver/Allen wrench (4mm or 5/32"). Turning the socket counterclockwise will allow the viewing surface to run farther down. Turning it clockwise will shorten the viewing surface, causing it to stop in a less extended position. At no time should viewing surface be unrolled enough to expose any part of screen roller.



Targa



Premier

⚠IMPORTANT

Use of Large Case Targa or Large Case Premier screens with TorkStar Utility Lineset requires specially modified Large Premier or Large Targa case and mounting brackets. DO NOT use TorkStar with standard Large Case Targa or Premier screen and brackets. Contact Draper for details.

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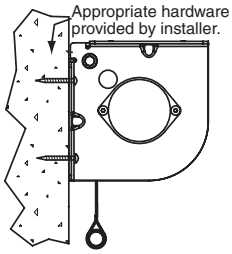
If you encounter any difficulties installing or servicing your large size Targa or Premier screen, call your dealer or Draper Inc., Spiceland, Indiana, USA, (765) 987-7999 or fax (765) 987-1689.

220V Targa and Premier —Large Sizes by Draper

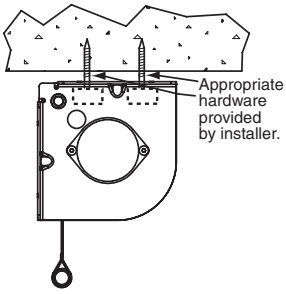
Case Dimensions

Types of Installation

Wall Mounted

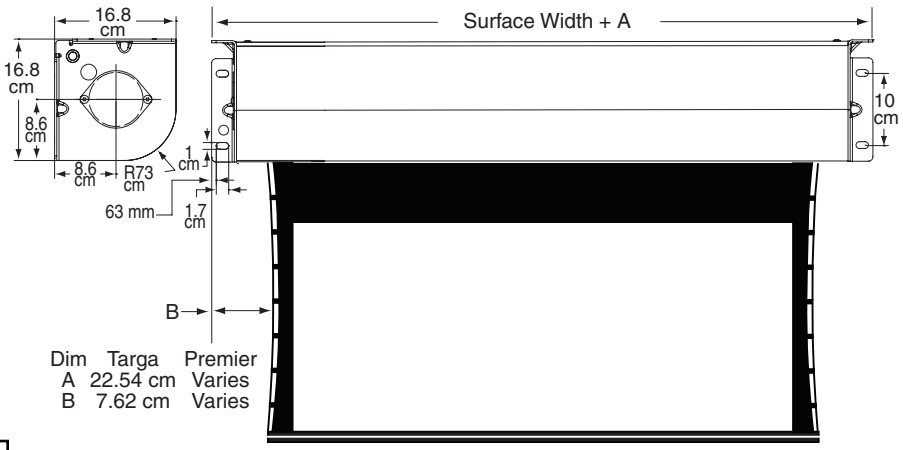


Ceiling Mounted



Product is very heavy: Installer must provide adequate attachment hardware and anchors as required. Installer must also insure that wall or ceiling structure is of adequate strength.

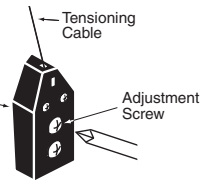
Case Dimensions (Premier Tab Tension Surface Shown)



Dim	Targa	Premier
A	22.54 cm	Varies
B	7.62 cm	Varies

Tab-Tension Adjustment Procedure for Premier

① Determine which side requires adjustment.
② Secure dowel with one hand.
⚠ ***Caution: Do not touch or bend surface.***
③ Using Philips-head screwdriver, depress spring-loaded adjustment screw (see drawing) and slowly turn clockwise to tighten tension, or counterclockwise to loosen tension. The screw adjusts in ¼ turn increments.
Adjust only **one increment** (¼ turn).
④ If problem is not corrected, leave screen in position for 24 hours to allow surface material to stretch into position.
⑤ If problem still is not corrected, repeat steps 2 and 3.

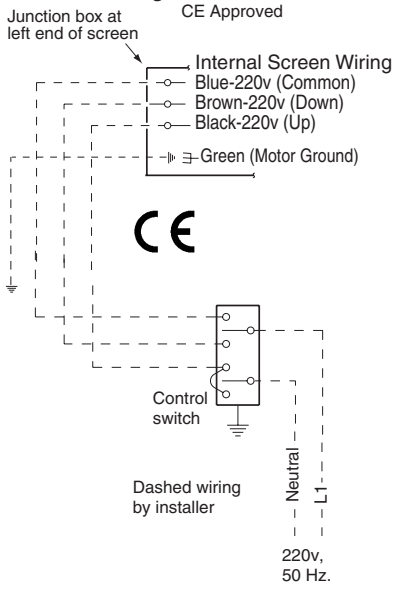


Wiring Diagrams

Please Note: Do not wire motors in parallel.

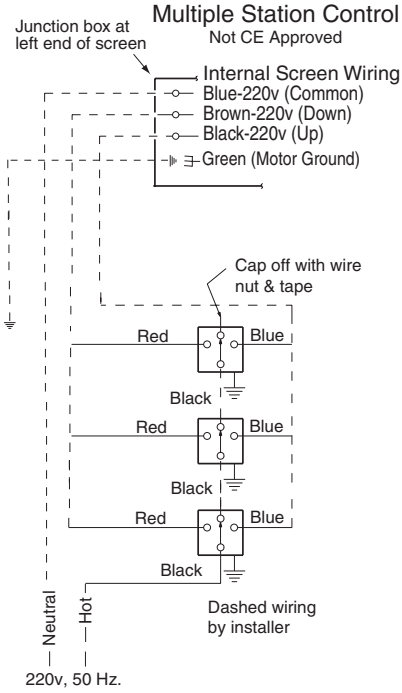
Single Station Control

CE Approved

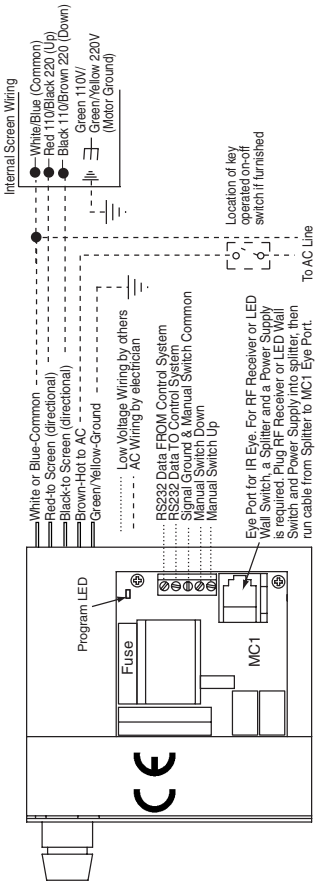


Multiple Station Control

Not CE Approved

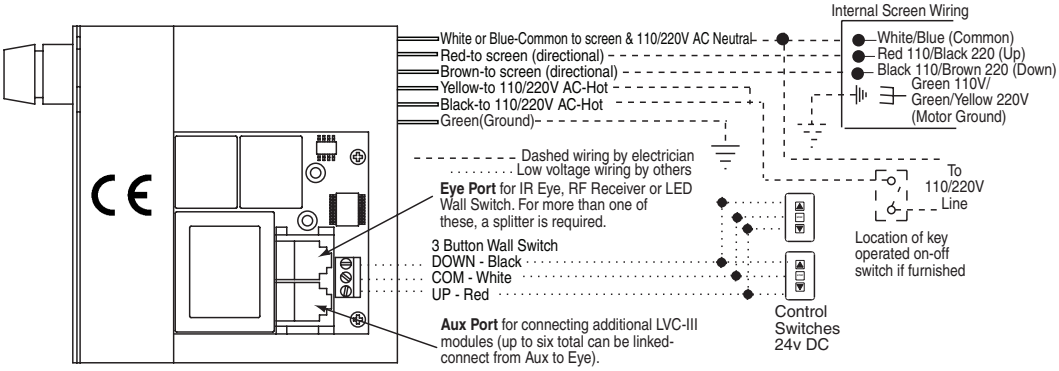


Two-Way Serial Communication (RS232) with MC1


Internal Screen Wiring
White/Blue (Common)
Red 110/Black 220 (Up)
Black 110/Brown 220 (Down)
Green 110V/ Green/Yellow 220V (Motor Ground)
Location of key operated on-off switch if furnished
To AC Line
White or Blue-Common
Red-to Screen (directional)
Black-to Screen (directional)
Brown-Hot to AC
Green/Yellow-Ground
Low Voltage Wiring by others
AC Wiring by electrician
RS232 Data FROM Control System
RS232 Data TO Control System
Signal Ground & Manual Switch Common
Manual Switch Down
Manual Switch Up
Eye Port for IR Eye, For RF Receiver or LED Wall Switch, a Splitter and a Power Supply is required. Plug RF Receiver or LED Wall Switch and Power Supply into splitter, then run cable from Splitter to MC1 Eye Port.
Program LED
Fuse
MC1

See separate Serial Communication-RS232 Instruction sheet for enabling RS232 with the MC1.

Low Voltage & Wireless Control


White or Blue-Common to screen & 110/220V AC Neutral
Red-to screen (directional)
Brown-to screen (directional)
Yellow-to 110/220V AC-Hot
Black-to 110/220V AC-Hot
Green(Ground)
Internal Screen Wiring
White/Blue (Common)
Red 110/Black 220 (Up)
Black 110/Brown 220 (Down)
Green 110V/ Green/Yellow 220V (Motor Ground)
Dashed wiring by electrician
Low voltage wiring by others
Eye Port for IR Eye, RF Receiver or LED Wall Switch. For more than one of these, a splitter is required.
3 Button Wall Switch
DOWN - Black
COM - White
UP - Red
Aux Port for connecting additional LVC-III modules (up to six total can be linked-connect from Aux to Eye).
To 110/220V Line
Location of key operated on-off switch if furnished
Control Switches 24v DC